

RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000000000		FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000000000		FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000000000		FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNNNNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNNNNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNNNNN	NNN	000	000	FFF	FFF
RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000	000	FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000	000	FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000	000	FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRR	RRR	UUU		UUU	NNN	NNNNNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNNNNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNNNNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUUUUUUUUUUUUUUU		UUUUUUUUUUUUUUUU	NNN	NNN	000000000		FFF	FFF
RRR	RRR	UUUUUUUUUUUUUUUU		UUUUUUUUUUUUUUUU	NNN	NNN	000000000		FFF	FFF
RRR	RRR	UUUUUUUUUUUUUUUU		UUUUUUUUUUUUUUUU	NNN	NNN	000000000		FFF	FFF

```
FFFFFFFFF LL      IIIIII PPPPPPPP RRRRRRRR EEEEEEEEE CCCCCCCC SSSSSSSS
FFFFFFFFF LL      IIIIII PPPPPPPP RRRRRRRR EEEEEEEEE CCCCCCCC SSSSSSSS
FF        LL      II      PP        RR      EE        CC        SS
FF        LL      II      PP        RR      EE        CC        SS
FF        LL      II      PP        RR      EE        CC        SS
FF        LL      II      PP        RR      EE        CC        SS
FFFFFFFFF LL      II      PPPPPPPP RRRRRRRR EEEEEEEEE CC        SSSSSS
FFFFFFFFF LL      II      PPPPPPPP RRRRRRRR EEEEEEEEE CC        SSSSSS
FF        LL      II      PP        RR      EE        CC        SS
FF        LL      II      PP        RR      EE        CC        SS
FF        LL      II      PP        RR      EE        CC        SS
FF        LL      II      PP        RR      EE        CC        SS
FF        LL      IIIIII PPPPPPPP RRRRRRRR EEEEEEEEE CCCCCCCC SSSSSSSS
FF        LL      IIIIII PPPPPPPP RRRRRRRR EEEEEEEEE CCCCCCCC SSSSSSSS
```

```
RRRRRRRR EEEEEEEEE QQQQQQ
RRRRRRRR EEEEEEEEE QQQQQQ
RR      RR EE      QQ      QQ
RR      RR EE      QQ      QQ
RR      RR EE      QQ      QQ
RR      RR EE      QQ      QQ
RRRRRRRR EEEEEEEEE QQ      QQ
RRRRRRRR EEEEEEEEE QQ      QQ
RR      RR EE      QQ      QQ
RR      RR EE      QQ      QQ
RR      RR EE      QQ      QQ
RR      RR EE      QQ      QQ
RR      RR EEEEEEEEE QQQQ      QQ
RR      RR EEEEEEEEE QQQQ      QQ
```


Version: 'v04-000'

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FACILITY:      DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:
  This file documents the records emitted by RUNOFF for processing by FLIP.

ENVIRONMENT:
  DSRPLUS

AUTHOR: George C. Hetrick

CREATION DATE: 1981

MODIFIED BY:

003      KAD00003      Keith Dawson      17-May-1983
        Made all ~ CODES [$TINY INTEGER]'s again. The reason for
        having changed to [$INTEGER]'s in the first place has gone
        away: FLIP code is now more tightly conditionalized (for
        the benefit of TOPS-20 mainly).

002      KAD00002      Keith Dawson      07-Mar-1983
        Global edit of all modules. Updated module names, ids,
        copyright dates. Changed require files to BLISS library.

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%sbttl 'FLIP/RUNOFF record types';

\$LITERAL

FL'PSK_INIT = \$DISTINCT;
FLIPSK_RNOTXT = \$DISTINCT;
FLIPSK_TCXTXT = \$DISTINCT;
FLIPSK_TCXTN = \$DISTINCT;
FLIPSK_TCXINI = \$DISTINCT;
FLIPSK_TOCRD = \$DISTINCT;
FLIPSK_TOCTXT = \$DISTINCT;
FLIPSK_TOCPAG = \$DISTINCT;
FLIPSK_TOCHLI = \$DISTINCT;
FLIPSK_TOCHL = \$DISTINCT;
FLIPSK_NEWPAG = \$DISTINCT;

LITERAL

FLIPSK_VERSION = 1;


```
%sbttl 'INIT -- initial FLIP record';
```

```
$FIELD
```

```
  $FLIP$INIT_FIELDS = SET
    INIT_CODE      = [$TINY_INTEGER],    ! record type
    INIT_FLAGS     = [$BYTE],            ! various flags
    $OVERLAY(INIT_FLAGS)
    INIT_CONTENTS  = [$BIT],             ! was /CONTENTS specified
    $CONTINUE
    INIT_LEVEL     = [$SHORT_INTEGER]    ! FLIP version
  TES;                                     ! Size in UNITS
```

```
LITERAL
```

```
  FLIP$K_INIT_LENGTH = $FIELD SET SIZE,    ! Size in FULLWORDS
  FLIP$K_INIT_SIZE   = %UPVAL*$FIELD_SET_SIZE; ! Size in UNITS
```

```
MACRO
```

```
  $FLIP_INIT = BLOCK[FLIP$K_INIT_LENGTH] FIELD($FLIP$INIT_FIELDS)%;
```


%sbttl 'RNOTXT -- text record';

\$FIELD
\$FLIP\$RNOTXT_FIELDS1= SET
RNOTXT_CODE = [\$TINY_INTEGER] ! record type
RNOTXT_LENGTH = [\$SHORT_INTEGER] ! length of data portion
TES;

LITERAL
FLIP\$RNOTXT_BASELEN = \$FIELD SET SIZE ! Size in FULLWORDS
FLIP\$K_RNOTXT_BASESIZ = %UPVAL*\$FIELD_SET_SIZE;
! Size in UNITS

\$FIELD
\$FLIP\$RNOTXT_FIELDS2= SET
RNOTXT_FILLER = [\$SUB_BLOCK(FLIP\$K_RNOTXT_BASELEN)],
RNOTXT_TEXT = [\$SUB_BLOCK(1000)] ! TEXT segment
TES;

LITERAL
FLIP\$K_RNOTXT_LENGTH = \$FIELD SET SIZE ! Size in FULLWORDS
FLIP\$K_RNOTXT_SIZE = %UPVAL*\$FIELD_SET_SIZE; ! Size in UNITS

MACRO
\$FLIP_RNOTXT = BLOCK[FLIP\$K_RNOTXT_LENGTH] FIELD(\$FLIP\$RNOTXT_FIELDS1,
\$FLIP\$RNOTXT_FIELDS2)%;

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%sbttl 'TOCTXT -- TOC text record';

```
$FIELD
$FLIP$TOCTXT_FIELDS1= SET
    TOCTXT_CODE      = [$TINY_INTEGER],      ! record type
    TOCTXT_MAJOR     = [$TINY_INTEGER],      ! major code
    TOCTXT_MINOR     = [$TINY_INTEGER],      ! minor code
    TOCTXT_LENGTH    = [$INTEGER]           ! length of data portion
TES;
```

```
LITERAL
FLIP$K_TOCTXT_BASELEN = $FIELD SET SIZE,      ! Size in FULLWORDS
FLIP$K_TOCTXT_BASESZ  = %UPVAL*$FIELD_SET_SIZE; ! Size in UNITS
```

```
$FIELD
$FLIP$TOCTXT_FIELDS2= SET
    TOCTXT_FILLER    = [$SUB_BLOCK(FLIP$K_TOCTXT_BASELEN)],
    TOCTXT_TEXT       = [$SUB_BLOCK(1000)]      ! TEXT segment
TES;
```

```
LITERAL
FLIP$K_TOCTXT_LENGTH = $FIELD SET SIZE,      ! Size in FULLWORDS
FLIP$K_TOCTXT_SIZE   = %UPVAL*$FIELD_SET_SIZE; ! Size in UNITS
```

```
MACRO
$FLIP_TOCTXT = BLOCK[FLIP$K_TOCTXT_LENGTH] FIELD($FLIP$TOCTXT_FIELDS1,
    $FLIP$TOCTXT_FIELDS2)%;
```


%sbttl 'TOCRD -- TOC descriptor';

```
$FIELD
$FLIP$TOCRD_FIELDS = SET
    TOCRD_CODE      = [$TINY_INTEGER],    ! record type
    TOCRD_MAJOR     = [$INTEGER],         ! major code
    TOCRD_MINOR     = [$INTEGER]         ! minor code
TES;
```

```
LITERAL
FLIP$K_TOCRD_LENGTH = $FIELD_SET_SIZE,    ! Size in FULLWORDS
FLIP$K_TOCRD_SIZE   = %UPVAL*$FIELD_SET_SIZE; ! Size in UNITS
```

```
MACRO
$FLIP_TOCRD = BLOCK[FLIP$K_TOCRD_LENGTH] FIELD($FLIP$TOCRD_FIELDS)%;
```


FLIPRECS.REQ;1

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%sbttl 'TOCPAG -- TOC page record';

\$FIELD
\$FLIP\$TOCPAG_FIELDS = SET
TOCPAG_CODE = [\$TINY_INTEGER] ! record type
TOCPAG_PAGENO = [\$SUB_BLOCK(PAGE_SCT_SIZE)] ! page number segment
TES;

LITERAL
FLIP\$K_TOCPAG_LENGTH = \$FIELD SET SIZE, ! Size in FULLWORDS
FLIP\$K_TOCPAG_SIZE = %UPVAL*\$FIELD_SET_SIZE; ! Size in UNITS

MACRO
\$FLIP_TOCPAG = BLOCK[FLIP\$K_TOCPAG_LENGTH] FIELD(\$FLIP\$TOCPAG_FIELDS)%;

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%sbttl 'TCXXTN -- index';

\$FIELD

\$FLIP\$TCXXTN_FIELDS = SET
TCXXTN_CODE = [\$TINY_INTEGER], ! record type
\$ALIGN(FULLWORD)
TCXXTN_XTN = [\$INTEGER], ! transaction type
TCXXTN_SCT = [\$SUB_BLOCK(PAGE_SCT_SIZE)] ! page number segment

TES;

LITERAL

FLIP\$K_TCXXTN_LENGTH = \$FIELD_SET_SIZE, ! Size in FULLWORDS
FLIP\$K_TCXXTN_SIZE = %UPVAL*\$FIELD_SET_SIZE; ! Size in UNITS

MACRO

\$FLIP_TCXXTN = BLOCK[FLIP\$K_TCXXTN_LENGTH] FIELD(\$FLIP\$TCXXTN_FIELDS)%;

%sbttl 'TOCHLI -- TOC header level info record';

\$FIELD
\$FLIP\$TOCHLI_FIELDS = SET
TOCHLI_CODE = [\$TINY_INTEGER], ! record type
TOCHLI_HLLIST = [\$SUB_BLOCK(2+MAX_LEVELS)], ! header level info
TOCHLI_HLDSP = [\$SUB_BLOCK(MAX_LEVELS)] ! header level display info
TES;

LITERAL
FLIP\$K_TOCHLI_LENGTH = \$FIELD_SET_SIZE, ! Size in FULLWORDS
FLIP\$K_TOCHLI_SIZE = %UPVAL*\$FIELD_SET_SIZE; ! Size in UNITS

MACRO
\$FLIP_TOCHLI = BLOCK[FLIP\$K_TOCHLI_LENGTH] FIELD(\$FLIP\$TOCHLI_FIELDS)%;

FLIPRECS.REQ;1

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%sbttl 'TCXINI -- Index Header record';

\$FIELD

\$FLIP\$TCXINI_FIELDS = SET
TCXINI_CODE = [\$TINY INTEGER], ! record type
TCXINI_HEADER = [\$INTEGER] ! TCX format indicator
TES;

LITERAL

FLIP\$K_TCXINI_LENGTH = \$FIELD_SET_SIZE, ! Size in FULLWORDS
FLIP\$K_TCXINI_SIZE = %UPVAL*\$FIELD_SET_SIZE; ! Size in UNITS

MACRO

\$FLIP_TCXINI = BLOCK[FLIP\$K_TCXINI_LENGTH] FIELD(\$FLIP\$TCXINI_FIELDS)%;

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%sbttl 'TCXTXT -- Index TEXT record';

\$FIELD

```
$FLIP$TCXTXT_FIELDS1 = SET
  TCXTXT_CODE      = [$TINY_INTEGER],      ! record type
  $ALIGN(FULLWORD)
  TCXTXT_ENTRY     = [$INTEGER],           ! ENTRY flag
  TCXTXT_LENGTH    = [$INTEGER],           ! length of data
  TCXTXT_XTN       = [$INTEGER],           ! transaction number
  TCXTXT_BAR       = [$INTEGER]           ! change bar flag
```

TES;

LITERAL

```
FLIP$K_TCXTXT_BASELEN = $FIELD_SET_SIZE,      ! Size in FULLWORDS
FLIP$K_TCXTXT_BASESIZ = %UPVAL*$FIELD_SET_SIZE;! Size in UNITS
```

\$FIELD

```
$FLIP$TCXTXT_FIELDS2 = SET
  TCXTXT_DUMMY     = [$SUB_BLOCK(FLIP$K_TCXTXT_BASELEN)],
  TCXTXT_TEXT      = [$SUB_BLOCK(1000)] ! text of entry
```

TES;

LITERAL

```
FLIP$K_TCXTXT_LENGTH = $FIELD_SET_SIZE,      ! Size in FULLWORDS
FLIP$K_TCXTXT_SIZE   = %UPVAL*$FIELD_SET_SIZE;! Size in UNITS
```

MACRO

```
$FLIP_TCXTXT = BLOCK[FLIP$K_TCXTXT_LENGTH] FIELD($FLIP$TCXTXT_FIELDS1,
  $FLIP$TCXTXT_FIELDS2)%;
```


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```
$FIELD $FLIP$TOCHL_FIELDS = SET  
      TOCHL_CODE = [$TINY_INTEGER] ! record type  
TES;
```

```
LITERAL
    FLIP$K_TOCHL_LENGTH = $FIELD_SET_SIZE,      ! Size in FULLWORDS
    FLIP$K_TOCHL_SIZE = %UPVAL*$FIELD_SET_SIZE; ! Size in UNITS
```

```
MACRO
    $FLIP_TOCHL = BLOCK[FLIP$K_TOCHL_LENGTH] FIELD($FLIP$TOCHL_FIELDS)%;
```

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